

Amendments to the Claims:

The following listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A magnetic recording medium comprising a magnetic layer which is sectioned into a plurality of data areas and a plurality of servo areas for information recording, wherein

in each of the servo areas, the magnetic layer is separated into a plurality of servo pattern unit parts for forming a predetermined servo pattern and a plurality of servo pattern gap filling parts patterned to fill gaps between the plurality of servo pattern unit parts partly, ~~the servo pattern unit parts and the servo pattern gap filling parts being formed in a pattern of projections of the magnetic layer and recesses therebetween;~~

the servo pattern unit parts and the servo pattern gap filling parts consist of projections of the magnetic layer;

the servo pattern unit parts and the servo pattern gap filling parts are magnetized in opposite polarities in a direction vertical to a surface.

2. (Currently Amended) The magnetic recording medium according to claim 1, wherein

~~the servo pattern unit parts and the servo pattern gap filling parts consist of the projections of the magnetic layer and~~ are formed in different sizes so as to have different magnetic properties.

3. (Previously Presented) The magnetic recording medium according to claim 2, wherein

the servo pattern unit parts and the servo pattern gap filling parts are formed in different sizes so as to have different coercivities as the magnetic properties.

4. (Previously Presented) The magnetic recording medium according to claim 2, wherein

the servo pattern unit parts and the servo pattern gap filling parts are formed in different sizes so as to have different magnetic anisotropies as the magnetic properties.

5. (Previously Presented) The magnetic recording medium according to claim 2, wherein

the servo pattern unit parts and the servo pattern gap filling parts are formed in different sizes so as to have different residual magnetizations as the magnetic properties.

6. (Currently Amended) The magnetic recording medium according to claim 1, wherein:

~~the servo pattern unit parts and the servo pattern gap filling parts consist of the projections of the magnetic layer;~~

in each of the data areas, the magnetic layer is separated into a number of recording elements; and

the servo pattern gap filling parts are formed so that the ratio of the total area of the servo pattern unit parts and the servo pattern gap filling parts in each of the servo areas is closer to the ratio of the area of the recording elements in each of the data areas than the ratio of the area of the servo pattern unit parts in each of the servo areas.

7. (Previously Presented) The magnetic recording medium according to claim 2, wherein:

in each of the data areas, the magnetic layer is separated into a number of recording elements; and

the servo pattern gap filling parts are formed so that the ratio of the total area of the servo pattern unit parts and the servo pattern gap filling parts in each of the servo areas

is closer to the ratio of the area of the recording elements in each of the data areas than the ratio of the area of the servo pattern unit parts in each of the servo areas.

8. (Previously Presented) The magnetic recording medium according to claim 3, wherein:

in each of the data areas, the magnetic layer is separated into a number of recording elements; and

the servo pattern gap filling parts are formed so that the ratio of the total area of the servo pattern unit parts and the servo pattern gap filling parts in each of the servo areas is closer to the ratio of the area of the recording elements in each of the data areas than the ratio of the area of the servo pattern unit parts in each of the servo areas.

9. (Previously Presented) The magnetic recording medium according to claim 4, wherein:

in each of the data areas, the magnetic layer is separated into a number of recording elements; and

the servo pattern gap filling parts are formed so that the ratio of the total area of the servo pattern unit parts and the servo pattern gap filling parts in each of the servo areas is closer to the ratio of the area of the recording elements in each of the data areas than the ratio of the area of the servo pattern unit parts in each of the servo areas.

10. (Previously Presented) The magnetic recording medium according to claim 5, wherein:

in each of the data areas, the magnetic layer is separated into a number of recording elements; and

the servo pattern gap filling parts are formed so that the ratio of the total area of the servo pattern unit parts and the servo pattern gap filling parts in each of the servo areas

is closer to the ratio of the area of the recording elements in each of the data areas than the ratio of the area of the servo pattern unit parts in each of the servo areas.

11. (Previously Presented) The magnetic recording medium according to claim 1, wherein:

in each of the data areas, the magnetic layer is separated into a number of recording elements at fine track pitches in a direction vertical to the traveling direction of a write/read head; and

the servo pattern gap filling parts are patterned to lie at least in part near the data areas in the servo area.

12. (Previously Presented) The magnetic recording medium according to claim 2, wherein:

in each of the data areas, the magnetic layer is separated into a number of recording elements at fine track pitches in a direction vertical to the traveling direction of a write/read head; and

the servo pattern gap filling parts are patterned to lie at least in part near the data areas in the servo area.

13. (Previously Presented) The magnetic recording medium according to claim 1, wherein

the servo pattern gap filling parts are formed smaller than the servo pattern unit parts.

14 -15. (Canceled)

16. (Currently Amended) A magnetic recording medium comprising a magnetic layer which is sectioned into a plurality of data areas and a plurality of servo areas for information recording, wherein

in each of the servo areas of the magnetic layer, servo pattern unit parts for forming a predetermined servo pattern are separated in a direction vertical to the traveling direction of a write/read ~~head-head~~; and

the servo pattern unit parts are separated so as to have a length greater than or equal to a track width, but not exceeding 0.2 mm, in the direction vertical to the traveling direction of the write/read head.

17-18. (Canceled)

19. (Previously Presented) A method of manufacturing a magnetic recording medium, comprising:

a magnetic layer forming step of forming a uniform magnetic layer on a substrate;

a magnetic layer processing step of separating the magnetic layer into a plurality of servo pattern unit parts consisting of projections for forming a predetermined servo pattern and a plurality of servo pattern gap filling parts consisting of projections for filling gaps between the plurality of servo pattern unit parts partly, and forming the servo pattern unit parts and the servo pattern gap filling parts in different sizes so as to have different magnetic coercivities;

a first direct-current magnetic field applying step of applying a uniform direct-current magnetic field higher than the coercivities of both the servo pattern unit parts and the servo pattern gap filling parts to the magnetic layer; and

a second direct-current magnetic field applying step of applying a uniform direct-current magnetic field having an intensity intermediate between the coercivity of the servo pattern unit parts and the coercivity of the servo pattern gap filling parts to the magnetic layer in a direction opposite to that of the foregoing direct-current magnetic field.

20. (Canceled)